

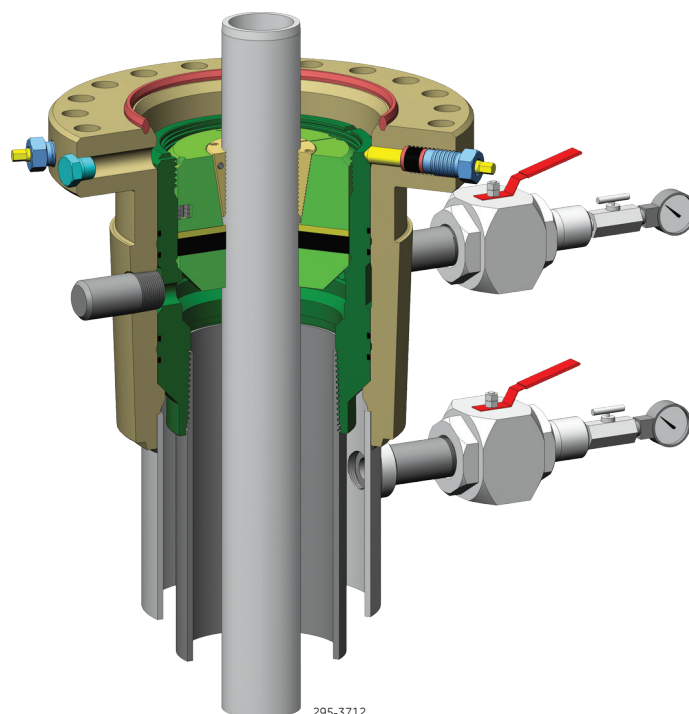
# Time-Saving Wellheads

## Pressure Control LSH Land Speedhead™ System

The LSH Land Speedhead™ System is designed for use as a two-stage starting head, combining the casing head and casing spool into a single housing. The BOP stack is made up to the starting head before drilling commences and is not removed until two strings of casing have been run. This technique impacts both rig costs and safety. By landing two casing strings in one compact forged housing, the LSH system eliminates one complete BOP nipple-down/nipple-up thereby saving significant rig time. By reducing handling of wellhead and BOP equipment and by minimizing potential wellhead leak paths, safety is substantially improved. The LSH system offers an economical alternative to the SH2 or SH3 speedhead systems for less demanding applications.

### Features —

- Improved safety
  - Field-proven
  - Intermediate casing landed, locked down and external seal tested without lifting BOP
- Time saving
  - Estimated 17 hours per well compared to conventional
  - Eliminates wait-on-cement time
  - Light weight/low height
- Flexible system
  - Standard interface with completion equipment
  - Alternate casing programs
  - Optional hangers for intermediate casing
  - Emergency hangers for intermediate casing strings available
  - Optional back pressure valve preparation available in the upper LSH mandrel casing hanger
  - Available with the S4 Surelok (PC #05-0224) bottom



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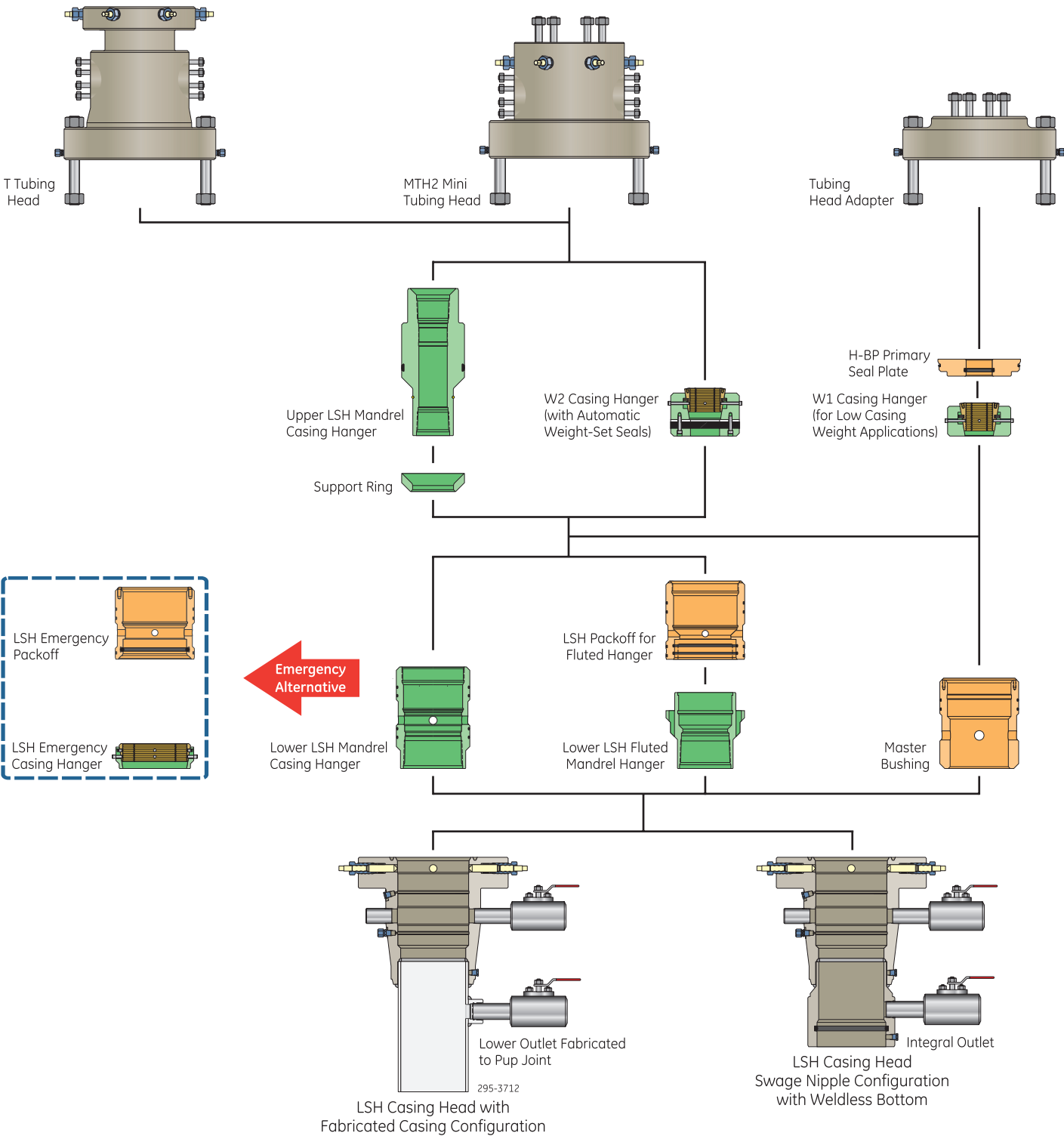
### Typical Casing Programs Available —

| Top Flange Size | Top Flange Pressure (psi) | Surface Casing | Intermediate Casing | Production Casing or Tubingless Completion (TLC) |
|-----------------|---------------------------|----------------|---------------------|--------------------------------------------------|
| 11"             | 3,000/5,000               | 9-5/8"         | 7"                  | 2-7/8" thru 4-1/2"                               |
|                 |                           |                | 7"                  | 2-7/8" thru 4-1/2"                               |
|                 |                           | 10-3/4"        | 7-5/8"              | 2-7/8" thru 5"                                   |
|                 |                           |                | 8-5/8"              | 2-7/8" thru 5-1/2"                               |
| 13-5/8"         | 3,000/5,000               |                | 8-5/8"              | 2-7/8" thru 5-1/2"                               |
|                 |                           | 11-3/4"        | 9-5/8"              | 2-7/8" thru 7"                                   |
|                 |                           |                | 8-5/8"              | 2-7/8" thru 5-1/2"                               |
|                 |                           | 13-3/8"        | 9-5/8"              | 2-7/8" thru 7"                                   |



# LSH Land Speedhead™ System

## Equipment Options —



GE imagination at work

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